

Total number of printed pages-3

14 (GGY-1) 1036

2023

**GEOGRAPHY**

Paper : GGY-1036

**(Climatology and Biogeography)**

Full Marks : 80

Time : Three hours

**The figures in the margin indicate full marks for the questions.**

**UNIT-I : Climatology**

(Marks : 48)

**Group-I**

**Answer any two of the following questions :**

16×2=32

1. Compare and contrast the sciences of meteorology and climatology. Discuss the sub-branches of climatology. How is scale important in the study of climatology?

4+8+4=16

2. Discuss how the atmosphere can be divided based on its thermal qualities. Discuss each one with a diagram.

4+12=16

*Contd.*

3. Discuss the role of latitude as a climate control. How do the earth-sun relationships affect the spatial and temporal distribution of energy throughout the year in each hemisphere ? 6+10=16

**Group-II**

*Answer any two of the following questions :*

8×2=16

4. Why do the earth's wind system and pressure belts migrate with the season ?
5. What is an El Nino ? What are the impacts that it has on global weather ?
6. Discuss the traditional and modern techniques of weather forecasting ?

**UNIT-II : Biogeography**

(Marks : 32)

**Group-III**

*Answer any one of the following questions :*

16

7. What is biogeography ? What are the questions that biogeographers seek to address ? Elucidate your answer with examples from the persistent themes in biogeography. 3+5+8=16

8. Draw a diagram of a soil profile. Discuss the characteristics of each layer in detail.  
6+10=16

#### **Group-IV**

*Answer any two of the following questions :*

8×2=16

9. Discuss the global biodiversity conservation efforts. Explain your answer citing at least *two* success stories from North-East India.
10. Discuss the development of National Forest Policies of India with its important milestones.
11. Write short notes on : (*any two*) 4×2=8
- (a) Umbrella species
  - (b) Oriental bio-geographic regions
  - (c) Nitrogen cycle